

USACE PLANNING PROCESS

Water Resources Development incl. Climate Change
Prepared by Derek J. Chow, Chief, Civil & Public Works Branch
For the Guam Assembly of Planners
November 30, 2016

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."



US Army Corps
of Engineers®



WHY PLAN?

- OAHU FREEWAY. Interstate H-1 was authorized as a result of the Statehood Act of 1960.[4] The portion of H-1 that runs through downtown Honolulu opened in 1953 as the Mauka Arterial; it was added to the Interstate system when Hawaii became a state. **This section has been largely unchanged since its inception and its design suffers from having too many on/off ramps, short distanced on-ramps, and on-ramps that enter the freeway almost immediately before an off-ramp (opposite of current design standards).** The 'new' section of H-1 was, however, built to modern freeway standards.
- “CHANCE FAVORS THE PREPARED MIND” – villain from the movie Under Siege.



AGENDA

- Area of Responsibility
- Mission Sets
- Services
- Project Purposes
- Project Development Process
- Planning Principles
- Plan Formulation
- Criteria
- Principles of Analysis
- Future Without Project Condition
- Summary of USACE Planning
- How can we help create the village of Tomorrow?

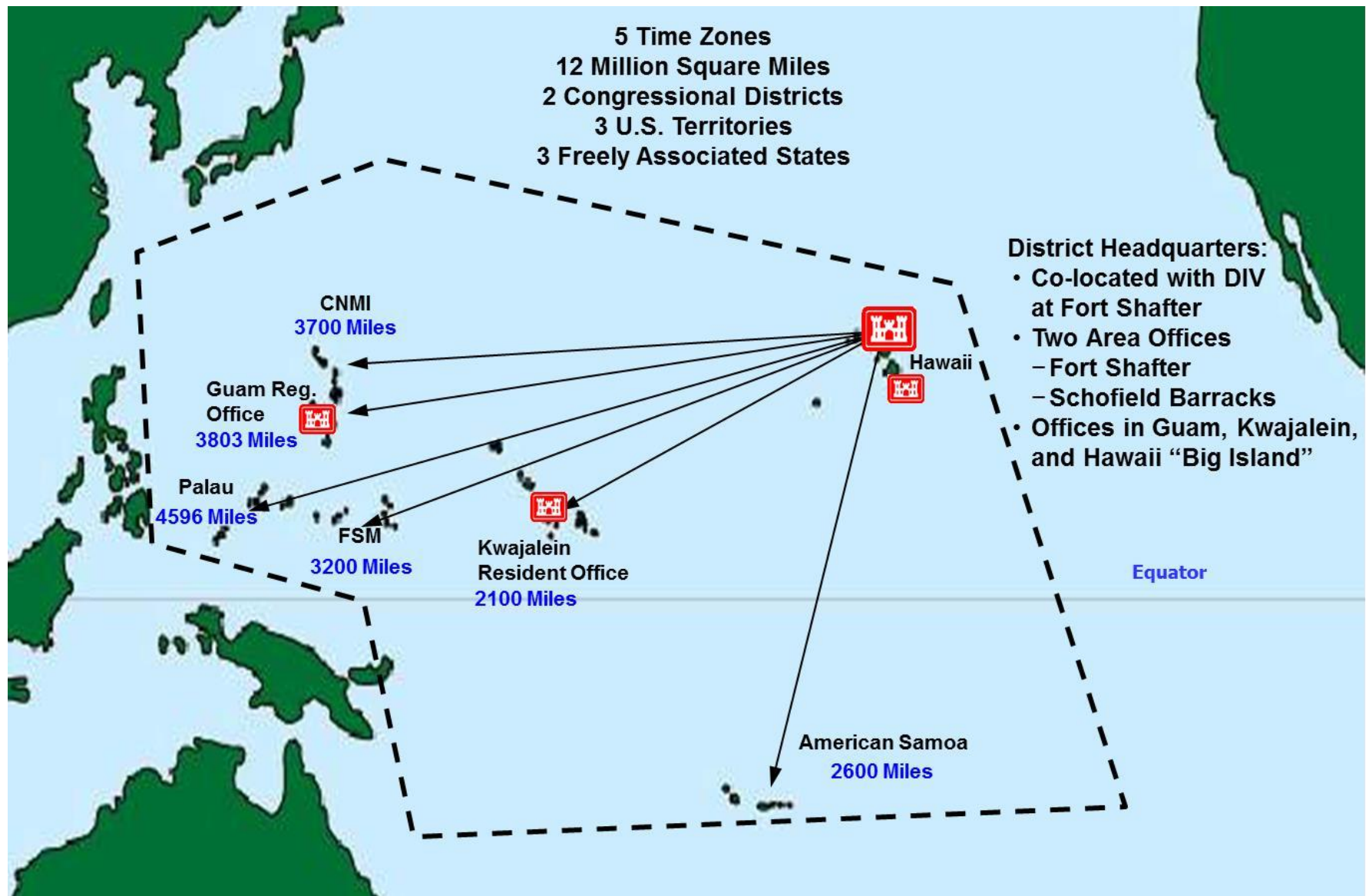
“The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.”



US Army Corps
of Engineers®



AREA OF RESPONSIBILITY



MISSION SETS



US Army Corps
of Engineers®



SERVICES

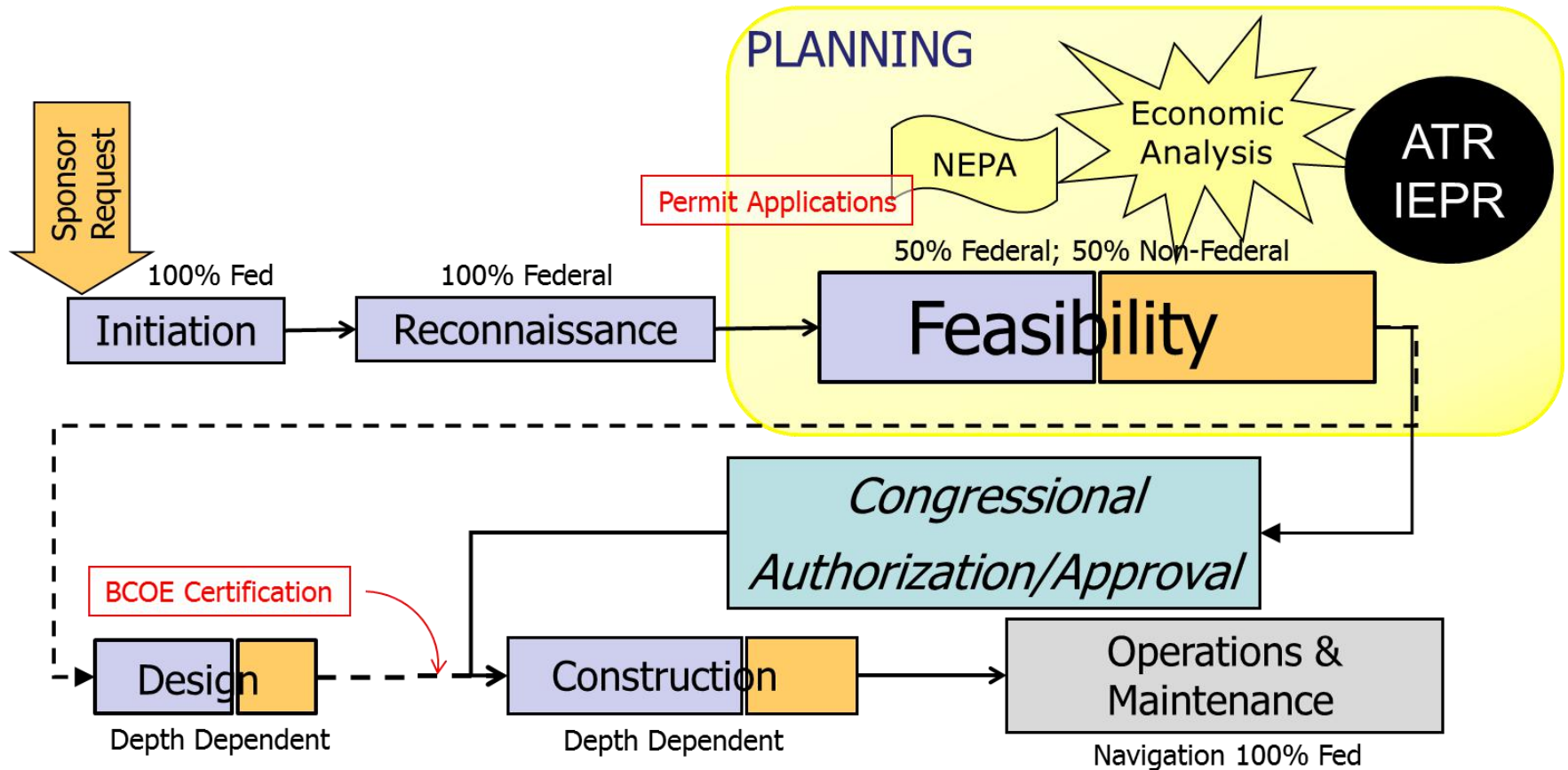
- **PROJECT DEVELOPMENT**
 - Develop large and small water resources development project in the areas of Navigation, Hurricane & Storm Damage Reduction, and Ecosystem Restoration.
 - Generally, cost shared 65% Federal; 35% local government.
 - Long term solution.
 - Watershed Planning.
- **TECHNICAL STUDIES**
 - Flood mapping studies – 100% Federally funded.
 - Technical studies and master plans – 50% Federal funded; 50% local government funded.
- **WORK FOR OTHERS**
 - Utilize USACE like a private consultant through executing support agreements for definable features of work.

PROJECT PURPOSES

- Navigation
- Hurricane and Storm Damage Protection (flood control and shoreline protection)
- Ecosystem Restoration
- Hydroelectric Power (secondary)
- Recreation (secondary)
- Water Supply (secondary)



PROJECT DEVELOPMENT PROCESS



ER 1105-2-100, Planning Guidance Notebook

PLANNING COMMUNITY TOOLBOX - TRAINING

- PCC1: Civil Works Orientation
- PCC2: Planning Principles and Procedures
- PCC3: Environmental Considerations
- PCC4: Economic Analysis for Water Resource Planning
- PCC5: Hydrology and Hydraulic (H&H) Considerations in Planning
- PCC6: Plan Formulation
- PCC7: Public Involvement and Team Planning
- Risk Analysis

<https://planning.erdc.dren.mil/toolbox/resources.cfm?Id=0&Option=Main>



US Army Corps
of Engineers[®]



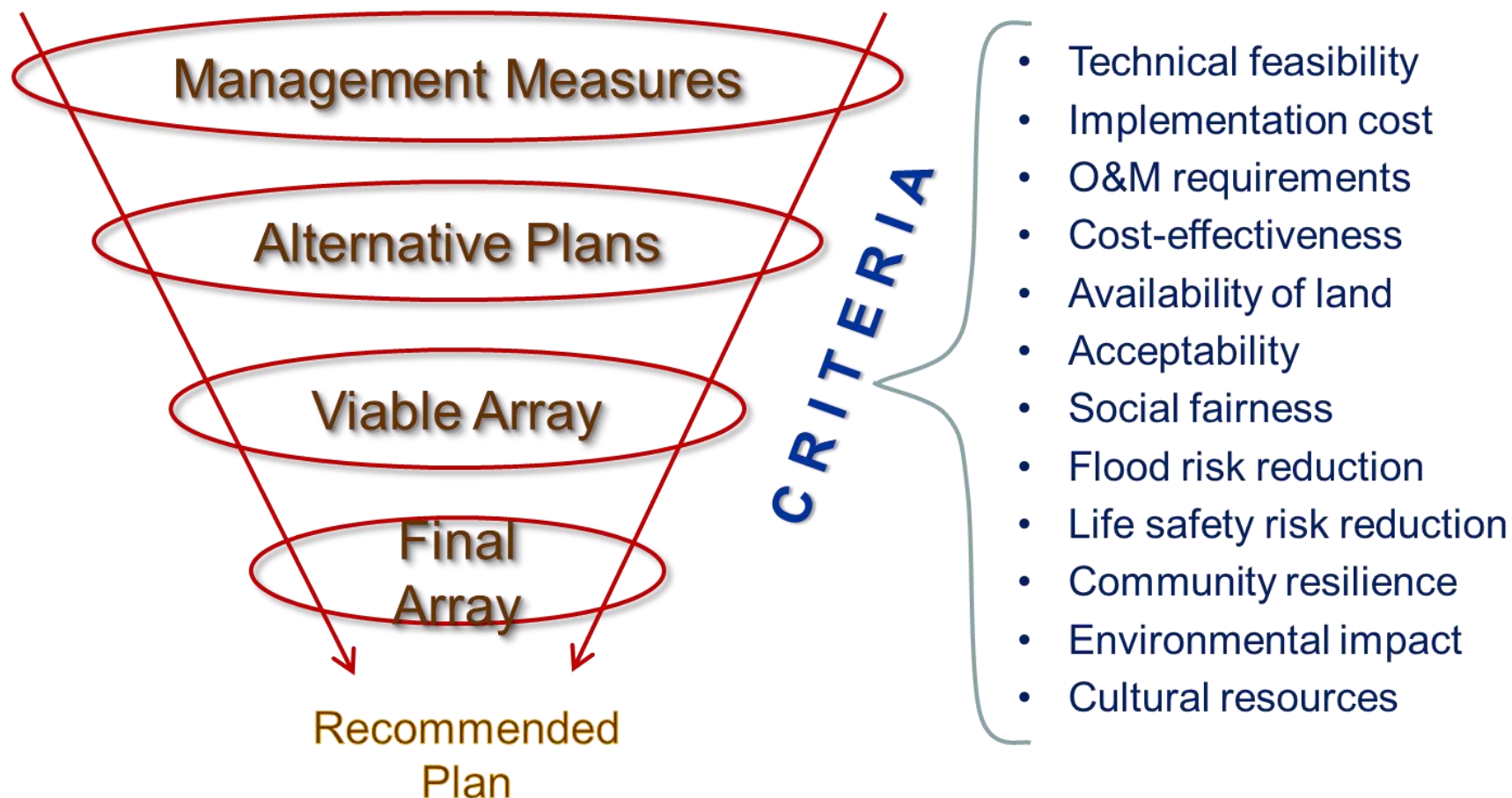
PLANNING PRINCIPLES

- **FEDERAL OBJECTIVE**
 - Based on Principles and Guidelines.
 - National Economic Development
 - Environmental Protection
 - Utilized by USACE, NRCS, Bureau of Reclamation, TVA



PLAN FORMULATION

11



US Army Corps
of Engineers[®]



CRITERIA

- Completeness, Effectiveness, Efficiency, Acceptability
- Sponsor Objectives
- National Economic Development
- Environmental Quality
- Regional Economic Development
- Other Social Effects



Leone Bridge, Am Samoa



Kaumalapau Harbor (Lanai)



US Army Corps
of Engineers®

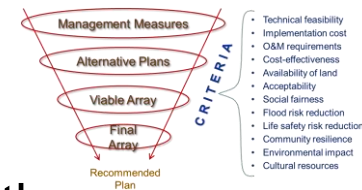


FUTURE WITHOUT PROJECT CONDITION

- Most Likely Condition Expected to Exist in the Future
- 50 year Economic Life
- Climate Change
- Land Use Changes
- Environmental Changes
- Economic Changes
- Urban Development
- Basis that all proposed plans are compared to

USACE PLANNING

- Inform a decision to recommend that Congress invest in the development of the project.
- Primarily based on National Economic Development Benefits.
- Prescriptive.



15

Serving Our Military, Our Nation, and the People of the Pacific



Essayons, Barbers Point Harbor, Oahu



US Army Corps
of Engineers®



HOW CAN WE HELP CREATE THE VILLAGE OF TOMORROW?

16

- Adopt an Integrated Comprehensive Planning Approach; i.e., clear and achievable objectives, coordinate/integrate all actions.
- Leverage Other Resources; e.g., Federal funding, philanthropic funding, reach beyond your local knowledge.
- Engage All Stakeholders, especially the Community.



US Army Corps
of Engineers ®



CONTACT

Honolulu District, U.S. Army Corps of Engineers
Fort Shafter, HI 96858-5440

Mr. Derek J. Chow

Chief, Civil & Public Works Branch
808-835-4026

Derek.J.Chow@usace.army.mil



US Army Corps
of Engineers ®

